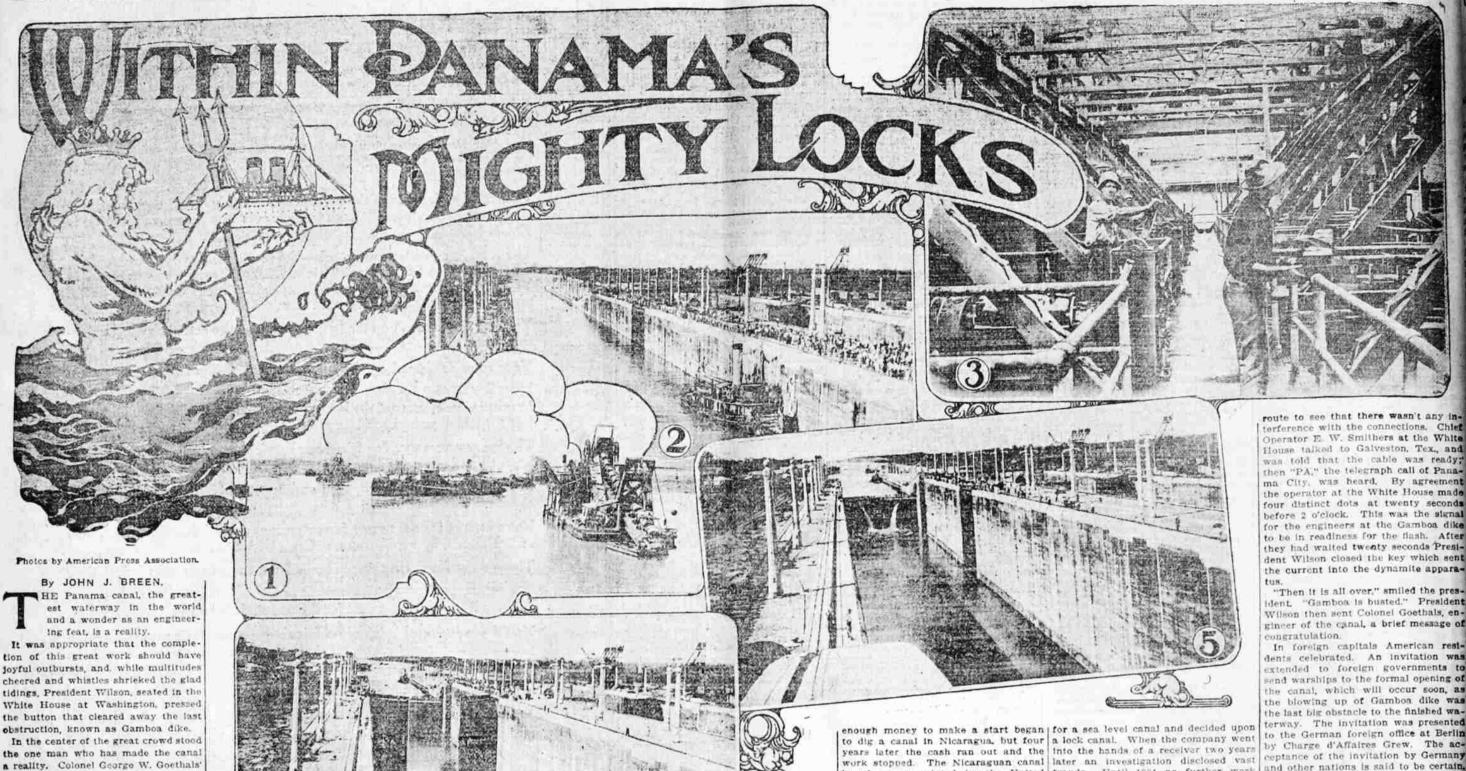
A PAGE OF TIMELY READING!



1.-Dredge at work in canal channel. 2.-Tug, first vessel in great locks. 3.-Working the levers in a lock. 4.-Opening of the gates. 5.-Part of lock being filled for passage of small vessel,

struction. With the explosion the hills reverberated, and the thousands of rific blast while Colonel Goethals and cut from Gatun lake the way from been used as a means of reaching the made their way to get a scientific idea The splendid work was done. The propriate ceremonies, the real big time Spaniards, bound across the isthmus. waters of Gatun lake, which for a will occur when the last two earth left the river and began to make the

week had been flowing slowly into the slides are cleared away. cut through five pipes, rushed into the | The dike at Gamboa was at the en-

touches and the dredging and widen- the waters of Gatun lake. It was terest in it. Prior to that time the sightseers who had been kept at a safe of muscle rather than mind. With the cut itself. Railroad trains ran the Nicaraguan route became the subsmashing of the wall separating the across the top of the dike, and it had ject of an investigation by the United engineers from all parts of the world ocean to ocean is as open, though not made their way to get a scientific idea as deep, as it will ever be. The pasnot is possible. While the blowing up, where the river Chagres flowed into motors being unable to raise the money of Gamboa dike was attended by ap- Gatun lake and where the ancient for surveys.

rest of the Journey on foot. Although the canal has been contemgreat gash and the Panama canal was trance of Culebra cut nearest the At- plated for 400 years, it was not until

States A company was formed in New | nominal head, took up the work, It sage of any light vessel through the ca- nal. At this point also was the spot of Nicaragua, but it falled, the pro- cost of the canal was ridiculously for 2 o'clock in the afternoon-left the

President Grant Made Survey.

President Grant, in 1869, had a survey made of the Nicaraguan and Panama routes, and the report favored the

work stopped. The Nicaraguan canal later an investigation disclosed vast board was appointed by the United frauds. Until 1894 no further work States in 1895, and in 1901 it reported was done; then the new Panama cana that if the property of the new Panacompany, a French corporation, was isthmus of Panama could not be tinuing work on Culebra cut until May bought for \$40,000,000 the American 1904, when the United States too company should begin the construction of a waterway in Nicaragua, for the \$40,000,000 offered. The French This report was made twenty-five had spent \$235,000,000 secured

years after the government of Colombonds having a face value of \$425,000, in granted a concession for a canal in Panama to a French company and President Presses Button. twenty years after the Universal Interoceanic Panama Canal company touching the button which meant the with Ferdinand de Lesseps as the end of the canal construction was rewas soon discovered by the French markable for its simplicity. He finishthat the \$127,000,000 estimate for the ed his lunch-the blowing up was set small. From the start the French White House for his office in the exwere handlcapped. Yellow fever found ecutive building and touched the butmany victims, and malaria or Cha- ton-as if he was summoning a mes- those of any other nation. The whole grea fever attacked others. Then there was the interference of Colombian offi-

In 1887, seeking retrenchment, the completed, except for the finishing lantle ocean and was built to hold back 1825 that the United States took an in- former. An American company with French company which french company which french company with french company

gineer of the canal, a brief message of ongratulation. In foreign capitals American residents celebrated. An invitation was extended to foreign governments to send warships to the formal opening of the canal, which will occur soon, a the last big obstacle to the finished waterway. The invitation was presente

to the German foreign office at Berlin Charge d'Affaires Grew. The acptance of the invitation by Germany and other nations is said to be certain, but the exact composition of the nava force to take part in the ceremony ha not been decided.

Foreign Newspapers Comment. The enterprise of America in th

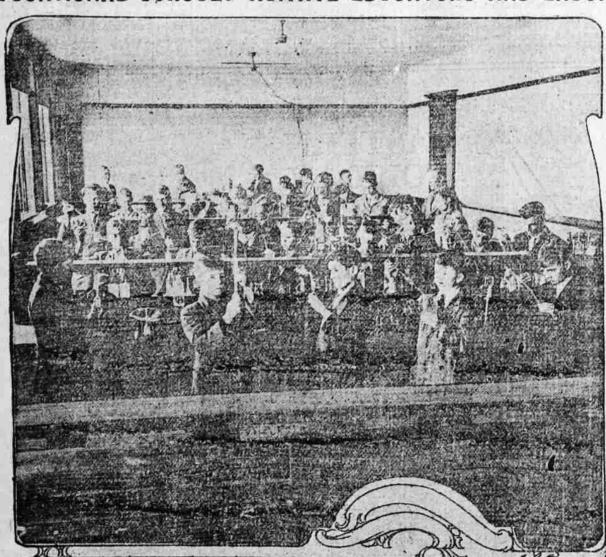
empletion of the canal formed theme for editorial comment by Engish newspapers.

"The Panama canal will stand for a time as a monument to the engineer general and of Colonel Goethals in par-

ticular. The conquest of pestilence b the Americans in the canal area always mark an epoch in medical an sanitary progress." The Dally Telegraph said: "England extends to the United States congratulations as hearty as

senger or stenographer. This act de- civilized world admires the courage tonated the dynamite stowed in the with which the republic's engineers Gamboa dike. Telegraphers had been have overcome the countless and a busy arranging for the epochal event, but insuperable difficulties of a truly

VOCATIONAL SCHOOLS AGITATE EDUCATORS AND LABOR



Photograph by Oregon Agricultural college.

face was a study. He beamed with

pleasure, and as the crowd cheered and

cheered him it was noticed that he

placed a handkerchief to his eye to

The pressing of the button at Wash-

ington, a simple affair, had a tremend-

ous echo at the other end of the line

for it set fire to eight tons of dynamite

which shattered the last natural ob-

wipe away a tear of joy.

Vessels Already In Canal.

Schoolboys Making Chemical Experiment

mixed results. While in some cities a vocational school bureau was started, then there was an additional demand agreement. This serves as a contract trade unions have regarded with sus- Several girls who had just left school for workers, and the board of educapicton the new movement, in others, it were approached by leading women of tion is considering the formation of and it tends to keep the boy in school is said, the labor bodies have given it the city. They were offered good pay vocational classes in many of the and to secure proper care and treat-Recently there was a labor shortage fronted with a decided scarcity of ia- The United States

OCATIONAL training in con- in Detroit. Garment manufacturers and bor. While many of the young women nection with the public school other firms employing young women preferred more genteel employment, pupil is to continue the course to its systems is agitating many found that they couldn't get any one to the wages that were offered and the completion. The employer on his part cities in the United States do the work. The matter was taken simplicity of the work proved attrac- undertakes to teach the pupil the rudideparture which may lead to up with the board of education and tions and many took the jobs. Even ments of the trade designated in the by the manufacturers who were con- schools.

tion has given a great deal of time to the subject and recently issued a bulletin in which it showed what has been accomplished. The bulletin demonstrates how shops and schools may, and do, unite in many communities. There is contained in the bulletin a detailed study of co-operative systems in York, Pa.; Fitchburg, Mass.; mond. Ind.; Lansing, Mich., and Beverly, Mass, where pupils spend half time in schools and the other half in shops, with the consent of the employers.

Edward G. Cooley of Chicago is an advocate of vocational schools separate from the public schools. Incidentally he has a criticism of the manual train. ing schools, of which there are many in hicago and Illinois. He asserts that the instructors in these schools are not qualified and that they know but little of the mechanical arts or the tools that

The manual training school is characterized as "incidental" The voca tional schools as proposed would aim to fit pupils for the vocations in which they hope to gain their livelihood. boy who may not take kindly to Latin, the higher branches of mathematics or English literature might be a mechanical genius simply awaiting the develoument he could attain under a proficient teacher. After his instruction in the vocational school he could go to a producing shop.

The co-operative industrial school plan has been in operation in Fitchburg, Mass., for five years, and many cities have written to the board of education there to get its ideas.

There is a four year course. The first is spent entirely in school. In the next three years the pupil alternates between school and shop, spending a week in each. The co-operation of the employers has been a big factor in the successful working out of the system. They offer apprenticeships at present in the machinist trade, pattern making, sawmaking, iron molding, tinsmithing, printing, textile work and office work. There is, however, no limit to the trades that may be chosen. The entrance requirements are the same as for entrance to high school.

At the end of the first year of school ing a trial period of two months is begun in the shops Thereafter an agree ment to continue is signed by the parents and employer, under which the ment for him.

HE announcement that the incomparable Pegoud, the ac-

Pegoud today is the most talked of riot. In a few months he became the in the reversed position, but no object man in the aviation world. France and most talked of air pilot in the world, was to be attained by doing this. Be all other nations sat up and took notice when he made a parachute drop from an aeroplane 500 feet in the air but this feat wasn't a circumstance to the one he performed the next day, when he thrilled thousands with what might be termed a trapeze act. Actually Pegoud causes his monoplane to describe a gigantic "S" in the sky, during which time he was flying upside

down for about a quarter of a mile. Aviators agree that Pegoud's sensa tional movements in the air will reduce to a minimum the dangers attendant on flying. He plans to show that the danger of death when an airship capsizes can be averted if the air man retains his self possession and knows just what to do.

Therefore his "stunt" is educational rather than acrobatic. He proceeds to put his machine in all possible positions and then rights it. Aviators who have watched him unite in declaring that when Pegoud's skill is mastered by other air pilots the death list from airships tumbling will be short indeed and a big step has been taken in the conquest of the aerial regions. Instead of being a dare devil, he has advanced to the dignity of an instructor in a science the possibilities of

which cannot even be guessed. After climbing into his monoplane Pegoud rose to a height of 2,000 feet; then began a fall toward earth, while the onlookers were breathless. turned his plane on its back and rose again. Still in an inverted position he went on and up until at one time the monoplane was upright in the air. standing on its tall, so to speak. The momentum of the machine took him in safety until, a fraction of a second later, he was right side up again on the

top of the aerial circle. Pegoud finally alighted in a tree and bandying jokes with the crowd, refused to come down. Then he dropped to terra firma, and after he had been almost mobbed by the most enthusiastic was carried off on the shoulders of the army air corps men. He did not fact, he was regarded as the most venreceive a penny for his services. Peturesome pilot in France where vengoud is twenty-six years old and, like turesome pilots abound. Only two
congestion and thus lose control of the all French aviators, doesn't know the weeks before he had tested M. Bon- apparatus, I, however, felt meaning of the word danger.

He has a comfortable income of his was replete with excitement and thrill knowledged king of the air, ing purely for the excitement of the feat Pegoud said that the motor who has amazed the world by thing. After terminating his service running at only quarter speed while figing in an airship upside down, would with the French army, during which the aeroplane was upside down. come to the United States caused a time he won distinction and promo- continued; big stir and gave an added impetus to the science of aviation in America. tion in the Morocco campairn, he began to study aviation with Louis Biemy control. I could have flown farther

The incident of President Wilson

own and has gone into the art of fly- After landing from his "upside down



Photos by American Press Association.

Pegoud Carried on Friends' Shoulders After Flight. Upper Left Corner, H Machine In Flight Upside Down.

Before any of his most recent won-usides, hanging downward for derful feats Pegoud had earned a reputifier brings blood to the bead and tation for daring and originality. In would cause inconvenience. net's parachute invention. The test danger,"